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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/584,735	06/26/2006	Mikio Oda	19993	8209	
23389 7590 12/08/2008 SCULLY SCOTT MURPHY & PRESSER, PC 400 GARDEN CITY PLAZA			EXAMINER		
			SHINGLETON, MICHAEL B		
SUITE 300 GARDEN CITY, NY 11530		ART UNIT	PAPER NUMBER		
				2815	
			MAIL DATE	DELIVERY MODE	
			12/08/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/584,735	ODA ET AL.			
		Examiner	Art Unit			
		Michael B. Shingleton	2815			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
 A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). 						
Status						
1)	Responsive to communication(s) filed on					
	This action is FINAL . 2b) This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
-	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
·						
, —	4)⊠ Claim(s) <u>1-26</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed.					
·	Claim(s) is/are allowed. Claim(s) is/are rejected.					
	Claim(s) is/are rejected. Claim(s) is/are objected to.					
	Claim(s) is/are objected to. Claim(s) <u>1-26</u> are subject to restriction and/or e	election requirement				
0)[Claim(s) <u>1-20</u> are subject to restriction and/or e	dection requirement.				
Application	on Papers					
9) 🔲 7	The specification is objected to by the Examine	r.				
10) 🔲 🗆	Γhe drawing(s) filed on is/are: a)∏ acce	epted or b) \square objected to by the E	Examiner.			
	Applicant may not request that any objection to the o	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	nder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
<i>,</i> — _	a) ☐ All b) ☐ Some * c) ☐ None of:					
,_	1. Certified copies of the priority documents	s have been received.				
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment	(s) e of References Cited (PTO-892)	1) Interview Summers	(PTO_413)			
1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 1) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Information Disclosure Statement(s) (PTO/SB/08)						
Paper	No(s)/Mail Date <u>11-15-2006 and 6-26-2006</u> .		6) Other: Note that the IDS listed in e-Dan paper 11-15-2006as an IDS is not a IDS, i.e. 1449 but needs to be mailed anyway.			

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Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-16, drawn to an optical device.

Group II, claim(s) 17-26, drawn to method for manufacturing a semiconductor integrated circuit.

The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The device a claimed can be manufactured by a materially different process such as forming bumps on the IC instead of the optical device or using wire bonding techniques to connect the optical elements to the IC. Other materially different processes include not using protective film in the manufacture process, just forming only the "necessary" optical elements i.e. the step of removing unnecessary optical elements is avoided by no forming unnecessary optical elements in the first place. Also a there is no single general inventive concept in the claims as materially different devices are wet forth that are not part of the final structure from the manufacture processes claimed which include structures that have wire bonding or structures that are not bonded by bumps but are an integral part of the substrate i.e. what applicant calls the integrated circuit.

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows: Species A directed toward Figure 3A, Species B directed toward Figure 13A, Species C directed toward Figure 14B, Species D directed toward Figure 15K, Species E directed toward Figure 19A.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an

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allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The following claim(s) are generic: Currently none of the claims are generic as the claims recite either all the optical elements as equal in height or another invention separate from the first where all the optical elements are not equal in height..

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: They are all directed to mutually exclusive inventions that by themselves could support a patent. For example some include structures wherein all the optical elements are of different heights. Some devices have the optical elements being an integral part of the substrate what applicant calls an integrated circuit and some devices i.e. species are directed to a device where the optical elements are all of the same height. There is simply no single inventive general concept presented but instead a large number of mutually exclusive separate inventions.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. <u>All</u> claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

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In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael B. Shingleton whose telephone number is (571) 272-1770.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ken Parker, can be reached on (571) 272-2298. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MBS

The fourth day of December in the year 2008

/Michael B. Shingleton/ Michael B Shingleton

Primary Examiner

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